LIFEPAK 20/20e Defibrillator/Monitor

Performance Inspection Procedure Checklist

Model # _____

Serial # _____ **Department/Location** _____

Type of PIP: **Post-Repair** ❒ **Annual** ❒ **Performed By** _____

Date _____

Inspection		**Pass**	**Fail**	**NA**	**Comments**
A	Physical Inspection	❒	❒	❒	

Testing		Pass	Fail	NA	Comments
1	Power On				
	a. Confirm the Service indicator is off.	❒	❒	❒	
	b. Confirm the device completes the Power On sequence.	❒	❒	❒	
2	Date and Time				
	Check/set date and time	❒	❒	❒	
3	Record Operating Data [optional]				

360J shocks		Power Cycle Count	
225 – 325J shocks		Pacing Count (if installed)	
100 – 200J shocks		Shock Count	
0 – 70J shocks		Power On Time	
		Printer On Time	
		SpO2 Operating Time (if installed)	
Total Shocks			

4	Contrast Test [optional test]	❒	❒	❒	
5	Pixel Test [optional test]	❒	❒	❒	
6	Keypads Confirm all control text boxes are highlighted.	❒	❒	❒	
7	Printer Confirm printed test strip and CHECK PRINTER message.	❒	❒	❒	
8	Audio Confirm voice messages and tones are clear and not distorted.	❒	❒	❒	
9	ECG Lead Characteristics				
	a. Confirm leads off screen messages.	❒	❒	❒	
	b. Record 5-lead ECG gain (tolerance 36 to 44 mm).	Amplitude: _____ mm			
		Amplitude: _____ mm			
		Amplitude: _____ mm			
		Amplitude: _____ mm			5-Lead only
		Amplitude: _____ mm			5-Lead only
10	Oximeter [if SpO2 option is installed] Confirm SpO2 reading is between 90% and 100%.	❒	❒	❒	
11	Therapy Impedance Sense				
	a. Confirm display of PADDLES LEADS OFF message. [248 ohms]	❒	❒	❒	
	b. Confirm no display of PADDLES LEADS OFF message. [182 ohms]	❒	❒	❒	

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Testing *(continued)*		Pass	Fail	NA	Comments
12	Therapy User Test Confirm Device passes User Test	❒	❒	❒	
13	Therapy Delivered Energy Record Sync Rwave (maximum 60 ms):	Sync: _____ ms			
	2 J – Record delivered energy (tolerance 1.0 to 3.0 J).	Energy Level: _____ J			
	70 J – Record delivered energy (tolerance 65.1 to 74.9 J).	Energy Level: _____ J			
	360 J– Record delivered energy (tolerance 334.8 to 385.2 J).	Energy Level: _____ J			
14	Therapy ECG Characteristics Record ECG gain (tolerance 36 to 44 mm; 38 to 50 mm with QED 6).	Amplitude: _____ mm			
	AED / Manual modes	❒	❒	❒	
15	Therapy Remote Sync Test Remote Sync: Sync LED is flashing	❒	❒	❒	
	Correct response to energy transfer	❒	❒	❒	
16	Pacer Option Characteristics [If Pacer option is installed]				
	a. Confirm leads off detection.	❒	❒	❒	
	b. 10 ma – Record current (tolerance 5 to 15 ma).	Current Level: ____ ma			
	100 ma – Record current (tolerance 95 to 105 ma).	Current Level: ____ ma			
	200 ma – Record current (tolerance 190 to 210 ma).	Current Level: ____ ma			
	c. Record pulse width (tolerance 19.0 to 21.0 ms).	Pulse Width: _____ ms			
17	ECG Analog Output [optional test] Record signal amplitude (tolerance 0.85 to 1.15 Vp-p).	Amplitude: _____ Vp-p			
18	Ground Resistance Test	❒	❒	❒	
19	Chassis Leakage Current				
	a. Neutral Closed, Polarity Normal Lead-Chassis, Normal.	❒	❒	❒	
	b. Neutral Closed, Polarity Normal, Lead-Chassis, Fault.	❒	❒	❒	
	c. Neutral Closed, Polarity Reversed, Lead-Chassis, Normal.	❒	❒	❒	
	d. Neutral Closed, Polarity Reversed, Lead-Chassis, Fault.	❒	❒	❒	
20	Earth Leakage Current				
	a. Neutral Closed, Polarity Normal, Earth.	❒	❒	❒	
	b. Neutral Closed, Polarity Reversed, Earth.	❒	❒	❒	
	c. Neutral Open, Polarity Normal, Earth.	❒	❒	❒	
	d. Neutral Open, Polarity Reversed, Earth.	❒	❒	❒	
21	ECG Lead Leakage Current				
	a. Neutral Closed, Polarity Normal, Lead-Gnd, Normal.	❒	❒	❒	
	b. Neutral Closed, Polarity Normal, Lead-Gnd, Fault.	❒	❒	❒	
	c. Neutral Closed, Polarity Reversed, Lead-Gnd, Normal.	❒	❒	❒	
	d. Neutral Closed, Polarity Reversed, Lead-Gnd, Fault.	❒	❒	❒	
	e. Neutral Closed, Polarity Normal, Lead-Lead, Normal.	❒	❒	❒	
	f. Neutral Closed, Polarity Normal, Lead-Lead, Fault.	❒	❒	❒	
	g. Neutral Closed, Polarity Reversed, Lead-Lead, Normal.	❒	❒	❒	
	h. Neutral Closed, Polarity Reversed, Lead-Lead, Fault.	❒	❒	❒	
	i. Neutral Closed, Polarity Normal, Lead Iso.	❒	❒	❒	

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Testing *(continued)*	**Pass**	**Fail**	**NA**	**Comments**
22 SpO2 Leakage Current [If SpO2 option is installed]				
a. Neutral Closed, Polarity Normal, Lead-Gnd, Normal.	❒	❒	❒	
b. Neutral Closed, Polarity Normal, Lead-Gnd, Fault.	❒	❒	❒	
c. Neutral Closed, Polarity Reversed, Lead-Gnd, Normal.	❒	❒	❒	
d. Neutral Closed, Polarity Reversed, Lead-Gnd, Fault.	❒	❒	❒	
e. Neutral Closed, Polarity Normal, Lead Iso.	❒	❒	❒	
23 Therapy Leakage Current				
a. Neutral Closed, Polarity Normal, Lead-Gnd, Normal.	❒	❒	❒	
b. Neutral Closed, Polarity Normal, Lead-Gnd, Fault.	❒	❒	❒	
c. Neutral Closed, Polarity Reversed, Lead-Gnd, Normal.	❒	❒	❒	
d. Neutral Closed, Polarity Reversed, Lead-Gnd, Fault.	❒	❒	❒	
e. Neutral Closed, Polarity Normal, Lead-Lead, Normal.	❒	❒	❒	
f. Neutral Closed, Polarity Normal, Lead-Lead, Fault.	❒	❒	❒	
g. Neutral Closed, Polarity Reversed, Lead-Lead, Normal.	❒	❒	❒	
h. Neutral Closed, Polarity Reversed, Lead-Lead, Fault.	❒	❒	❒	
i. Neutral Closed, Polarity Normal, Lead Iso.	❒	❒	❒	

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